

Patent claims

1. Method for deodorizing large-scale plants in which malodorous solid or liquid materials are stored open-air by treating the unpurified air above the surface of the malodorous materials with active agents that react with or mask the malodorous substances that the air contains, wherein the active agents are dispersed in a matrix of a crosslinked polymer containing hydrophilic groups and form, with this, a spongelike composition from which the active agents are slowly released and evaporate, characterized in that the spongelike composition is incorporated between two parallel boards that are arranged above the surface of the malodorous materials or at the edge of the large-scale plant and that a stream of air flows between the parallel boards and over the spongelike composition and releases the active agents.
2. Method as claimed in claim 1, characterized in that the spongelike composition in the form of crumbs, boards or strips 0.2 to 5 cm wide is laid on nets or lattices that are incorporated between the parallel boards.
3. Method as claimed in claim 1, characterized in that the crosslinked polymer is a condensation product of a maleinized or epoxidized polymer and a polyamine as the crosslinking agent.
4. Method as claimed in claim 1, characterized in that the crosslinked polymer is a copolymer of a monofunctional (meth)acrylic monomer and a polyfunctional (meth)acrylic monomer as the crosslinking agent.
5. Method as claimed in claim 1, characterized in that the active agents are released slowly and uniformly from the spongelike composition over a period of at least three days.

6. Method as claimed in claim 1, characterized in that the active agents are present in amounts of 10 to 90% by weight in the spongelike composition.
7. Method as claimed in claim 1, characterized in that the active agents are aldehydes, ketones, alcohols, esters or natural oily essences.
8. Method as claimed in claim 1, characterized in that the spongelike composition contains at least 0.1% by weight, preferably 1 to 8% by weight, of water
9. Method as claimed in claim 1, characterized in that the spongelike composition contains additionally flame retardants, sublimation assistants and/or powder in order to prevent caking.
10. Method as claimed in claim 1, characterized in that a number of parallel boards are distributed in the large-scale plant or arranged around its edge.
11. Device for deodorizing large-scale plants consisting of a pair of parallel boards open on all sides between which a spongelike composition is incorporated, said composition containing a matrix of a polymer containing crosslinked hydrophilic agents and volatile deodorizing agents dispersed therein.
12. Device as claimed in claim 11, characterized in that the spongelike composition is laid on nets or lattices.
13. Device as claimed in claim 11, characterized in that the parallel boards measure from 5 x 5 cm to 100 x 100 cm and are at a distance of from 2 to 20 cm from each other.
14. Device as claimed in claim 11, characterized in that the parallel boards are fixed horizontally to vertical posts.